

**USACE Asset Management Risk and Reliability Workshop**  
**Tuesday – Friday (15 – 18 August 2006)**

**15 AUGUST 2006 (DAY 1) Tuesday**

- 8:00 – 8:30 Welcome, Introductions, Logistics, Purpose of the Workshop,  
(**Soileau**)
- 8:30 – 8:40 Charge from Headquarters (**Barnes**)

**Plenary Session 1: USACE Business Line Asset Management**

- 8:40 – 8:45 Introduction to Plenary Session 1 (**Soileau**)
- 8:45 – 9:15 Asset Management Definitions Primer (**Hale**)
- 9:15 – 9:45 Condition Index Definitions Primer (**Estes**)
- 9:45 – 10:15 Risk Definitions Primer (**Bridges**)
- 10:15 – 10:35 Break
- 10:35 – 11:05 Reliability Analysis Procedures for Infrastructure Facilities  
(**Nowak**)
- 11:05 – 11:45 Asset Management Initiations, Directions, and Status (**Knight**)
- 11:45 – 12:05 Questions and Discussion
- 12:05 – 1:15 Lunch
- 1:15 – 1:20 Introduction to Business Line Leaders Round Table Discussion  
(**Soileau**)
- 1:20 – 1:25 Navigation (**Premo**)
- 1:25 – 1:30 Flood and Coastal (**Chapman**)
- 1:30 – 1:35 Hydropower (**Sadiki**)
- 1:35 – 1:40 Recreation (**Jackson**)
- 1:40 – 2:25 Business Line Leaders Round Table Discussion of Issues
- 2:25 – 2:45 Break
- 2:45 – 3:15 Data Requirements for Asset Management (**Krahenbuhl/Foltz**)
- 3:15 – 3:45 Overview of Condition Index (**Foltz**)
- 3:45 – 4:15 Overview of Engineering Risk and Reliability (**Schaaf/Chudgar**)
- 4:15 – 4:45 Incorporating Risk and Reliability into Decision Making (**Moser**)
- 4:45 – 5:15 BPA – Using Condition Index (HydroAMP) for Economic Decisions  
(**Rux**)
- 5:15 – 5:30 Summary of Plenary Session 1: Definitions and Issues (**Soileau**)

## **16 AUGUST 2006 (DAY 2) Wednesday**

08:00 – 08:05 Logistics (Soileau)

### **Plenary Session 2: Condition Assessment, and Risk and Reliability Examples from Business Lines (Topics of Interest)**

8:05 – 8:10 Introduction to Plenary Session 2 (**Soileau**)

8:10 – 8:35 Dam Safety PRA (**Halpin**)

8:35 – 9:00 Levees (**Durrett**)

9:00 – 9:25 Navigation LRD 5-year Plan (**Harder**)

9:25 – 9:50 HydroAMP (**Rux**)

9:50 – 10:20 Break

10:20 – 10:45 RecBest (**Jackson**)

10:45 – 11:10 Embankment and Spillway Relative Risk Assessment Procedures (**Chouinard**)

11:10 – 11:35 Using CI Ratings as an Estimate of Failure Probability (**Estes**)

11:35 – 12:00 Builder, Paver, Roofer, Railer (**Marrano**)

12:00 – 12:15 Summary of Plenary Session 2: Definitions and Issues (**Soileau**)

12:15 – 1:30 Lunch

### **Breakout Session 1: Condition Assessment by Business Line**

1:30 – 2:00 Description of Workgroup Process and Tasks (**Soileau**)

2:00 – 3:30 Separate breakout sessions (break when appropriate)

1. Navigation (Deep Draft) (**Briggs**)  
(incorporating Environment (**Bridges et al.**))
2. Navigation (Shallow Draft) (**Winkler**)  
(incorporating Environment (**Bridges et al.**))
3. Flood and Coastal (**Curtis**)  
(incorporating Environment (**Bridges et al.**))
4. Recreation (**Jackson**)  
(incorporating Environment (**Bridges et al.**))
5. Hydropower (**Rux**)  
(incorporating Environment (**Bridges et al.**))

3:30 – 4:30 Plenary on Workgroup Results (**Soileau**)

4:30 – 5:00 Facilitators and Recorders meet with Soileau – Compiling group report Information, Recommendations, and Lessons Learned

## **17 AUGUST 2006 (DAY 3) Thursday**

8:00 – 8:05 Logistics (**Soileau**)

### **Plenary Session 3: Risk and Reliability Examples from Business Lines (One R&R model from each Business Line)**

8:05 – 8:10 Introduction to Plenary Session 3 (**Soileau**)

8:10 – 8:40 Ohio River Lock Reliability (**Schaaf**)

8:40 – 9:10 Levee Reliability (**Durrett/Schaaf**)

9:10 – 9:40 Dam Reliability (**Halpin**)

9:40 – 10:10 Beach Fill Modeling Reliability (**Gravens**)

10:10 – 10:30 Break

10:30 – 11:00 Coastal Structure Modeling Reliability (**Melby**)

11:00 – 11:30 Risk-based Deep-draft Channel Design (**Briggs**)

11:30 – 12:00 Summary of Plenary Session 3 (**Soileau**)

12:00 – 1:15 Lunch

### **Breakout Session 2: Risk and Reliability Tools by Business Line**

1:15 – 1:25 Description of Workgroup Tasks (**Soileau**)

1:25 – 3:00 Separate breakout sessions (break as appropriate)

1. Navigation (Deep Draft) (**Briggs**)  
(incorporating Environment (**Bridges et al.**))
2. Navigation (Shallow Draft) (**Winkler**)  
(incorporating Environment (**Bridges et al.**))
3. Flood and Coastal (**Curtis**)  
(incorporating Environment (**Bridges et al.**))
4. Recreation (**Jackson**)  
(incorporating Environment (**Bridges et al.**))
5. Hydropower (**Rux**)  
(incorporating Environment (**Bridges et al.**))

3:00 – 4:00 Plenary on Workgroup Results (**Soileau**)

4:00 – 4:30 Plenary Synthesis (**Soileau w/others**)

4:30 – 5:00 Facilitators and Recorders meet with Soileau – Data Synthesis, Recommendations, and Lessons Learned

**18 AUGUST 2006 (DAY 4) Friday**

8:00 – 8:05 Logistics (**Soileau**)

**Plenary Session 4: Working Groups ID How to Proceed**

8:05 – 8:35 Issue Clarification

8:35 – 9:00 Prioritization

9:00 – 10:00 Goals

10:00 – 10:10 Prioritization

10:10 – 10:30 Break

**Plenary Session 5: Summarizing Session** (**Soileau/Knight**)

10:30 – 12:00 Summarize, recommendations, R&D needs, roadblocks

12:00 Conference adjourns

(Conference organizers and facilitators stay until 4:00 to finalize wrap-up elements.)